

**INDEX
BUSINESS HISTORY
VOLUME XXXIX**

Numbers 1, 2, 3, and 4

1. Articles

Author	Title	No.	Page
AMDAM Rolf Petter and BJARNAR Ove	Regional Business Networks and the Diffusion of American Management and Organisational Models to Norway, 1945-65	1	72
BELLAK Christian	Austrian Manufacturing MNEs: Long-Term Perspectives	1	47
BJARNAR Ove and AMDAM Rolf Petter	Regional Business Networks and the Diffusion of American Management and Organisational Models to Norway, 1945-65	1	72
BOYNS Trevor and EDWARDS John Richard	The Construction of Cost Accounting Systems in Britain to 1900: The Case of the Coal, Iron and Steel Industries	3	1
CASSON Mark	Institutional Economics and Business History: A Way Forward?	4	151
CASSON Mark and ROSE Mary B	Institutions and the Evolution of Modern Business: Introduction	4	1
CAUNCE S.A.	Complexity, Community Structure and Competitive Advantage within the Yorkshire Woollen Industry, c.1700-1850	4	26
COOKSON Gillian	Family Firms and Business Networks: Textile Engineering in Yorkshire, 1780-1830	1	1
COX Howard	Learning to do Business in China: The Evolution of BAT's Cigarette Distribution Network, 1902-41	3	30
DARBY James	The Environmental Crisis and the Origins of Japanese Manufacturing in Europe	2	94
de WIT Dirk	The Construction of the Dutch Computer Industry: The Organisational Shaping of Technology	3	81
EDWARDS John Richard and BOYNS Trevor	The Construction of Cost Accounting Systems in Britain to 1900: The Case of the Coal, Iron and Steel Industries	3	1
HILLMAN John	The Impact of the International Tin Restriction Schemes on the Return to Equity of Tin Mining Companies, 1927-39	3	65
JONES Charles	Institutional Forms of British Foreign Direct Investment in South America	2	21
JONES SRH	Transaction Costs and the Theory of the Firm: The Scope and Limitations of the New Institutional Approach	4	9
KIPPING Matthias	Consultancies, Institutions and the Diffusion of Taylorism in Britain, Germany and France, 1920s to 1950s	4	66
KNUTSEN Sverre	Post-War Strategic Capitalism in Norway: A Theoretical and Analytical Framework	4	106

MAGEE Gary B			
Technological Divergence in a Continuous Flow Production			
Industry: American and British Paper Making in the Late			
Victorian and Edwardian Era	1	21	
McKINSTRY Sam			
The Rise and Progress of John Brown Engineering, 1966-97:			
US Technology, Scottish Expertise and English Capital	3	105	
NAPIER Christopher J			
Allies or Subsidiaries? Inter-Company Relations in the P & O			
Group, 1914-39	2	69	
ROSE Mary B			
The Politics of Protection: An Institutional Approach to			
Government-Industry Relations in the British and United States			
Cotton Industries, 1945-73	4	128	
ROSE Mary B and CASSON Mark			
Institutions and the Evolution of Modern Business:			
Introduction	4	1	
SCHMITZ Christopher			
The Nature and Dimensions of Scottish Foreign Investment, 1860-1914	2	42	
SJÖGREN Hans			
Financial Reconstruction and Industrial Reorganisation in			
Different Financial Systems: A Comparative View of British			
and Swedish Institutions during the Inter-War Period	4	84	
WESTALL Oliver M			
Invisible, Visible and 'Direct' Hands: An Institutional			
Interpretation of Organisational Structure and Change in			
British General Insurance	4	44	

2. Survey Articles

Author	Title	No. Page
PEARSON Robin		
British Business History: A Review of the Periodical Literature for 1995	2	
1		

3. Reviews

Author	Title	Reviewer	No. Page
AALDERS Gerard and WIEBES Cees			
The Art of Cloaking Ownership: The Secret			
Collaboration and Protection of the German War			
Industry by the Neutrals SJÖGREN Hans	2	134	
ADLER Franklin H			
Italian Industrialists from Liberalism to Fascism:			
The Political Development of the Industrial			
Bourgeoisie, 1906-1934 RANIERI Ruggero	1	115	
ALDCROFT Derek H and CATTERALL Ross E (eds)			
Rich Nations - Poor Nations: The Long-Run			
Perspective	LEWIS Colin M	1	136

ALDCROFT Derek H. and SLAVEN Anthony (eds)			
Enterprise and Management: Essays in Honour of Peter L. Payne	KIRBY Maurice	2	126
ALFORD BWE			
Britain in the World Economy since 1880	CAPIE Forrest	1	101
AMDAM Rolv Petter (ed)			
Management, Education and Competitiveness: Europe, Japan and the United States	LOCKE Robert R	3	179
ARMSTRONG Hugo and GROSS Dick			
Tricontinental: The Rise and Fall of a Merchant Bank	VILLE Simon P	4	188
ASHTON David N and GREEN Francis			
Education, Training and the Global Economy	JOHNES Geraint	1	138
ASPIN C			
The First Industrial Society: 1750-1850 Lancashire	CHAPMAN SD	2	119
AUTHEMAN André			
La Banque Impériale ottomane	VERLEY P	2	132
BAGNASCO Arnaldo and SABEL Charles (eds)			
Small and Medium-Size Enterprises	NENADIC Stana	1	134
BEAN Jonathan J			
Beyond the Broker State: Federal Policies toward Small Business, 1936-1961	HAWKINS Richard A	4	185
BERGER Stefan and BROUGHTON David			
The Forces of Labour: The Western European Labour Movement and the Working Class in the Twentieth Century	WRIGLEY Chris	2	137
BERGER Suzanne and DORE Ronald (eds)			
National Diversity and Global Capitalism	BROADBERRY Stephen	4	197
BERGHAHN Volker R (ed)			
Quest for Economic Empire: European Strategies of German Big Business in the Twentieth Century	SLUYTERMAN Keetie E	2	139
BLATT Martin H and NORKUNAS Martha K (eds)			
Work, Recreation and Culture: Essays in American Labor History	WALSH Margaret	3	159
BONIN Hubert			
Les groupes financiers français	CHICK Martin	2	138
BONIN Hubert			
Société Générale in the United Kingdom	MICHIE RC	3	149
BOWMAN Scott R			
The Modern Corporation and American Political thought: Law, Power and Ideology	TWEEDALE Geoffrey	3	163
BROWN Kenneth			
The British Toy Business: A History Since 1700	THOMS David	2	116

CALLON Scott			
Divided Sun: MITI and the Breakdown of Japanese High-Tech Industrial Policy, 1975-1993	YONEKURA Seiichiro	3	166
CAMINER David, ARIS John, HERMON Peter and LAND Frank			
User-Driven Innovation: The World's First Business Computer	CAMPBELL-KELLY Martin	1	106
CAMPBELL Walter E			
Across Fortune's Tracks: A Biography of William Rand Kenan, Jr.	LEVENSTEIN Margaret	3	164
CAMPBELL-KELLY Martin and ASPRAY William			
Computer: A History of the Information Machine	YATES JoAnne	4	196
CARRUTHERS Bruce G			
City of Capital: Politics and Markets in the English Financial Revolution	ROSEVEARE HG	3	138
CASSON Mark			
The Organization of International Business: Studies in the Economics of Trust	WILKINS Mira	1	137
CASTENADA Christopher J and SMITH Clarence M			
Gas Pipelines and the Emergence of America's Regulatory State: A History of Panhandle Eastern Corporation, 1928-1993	KILLICK JR	4	184
CHALINE Jean-Pierre and BONIN Hubert			
Le Crédit Industriel de Normandie	LYNCH Frances MB	4	178
CHAMBERS RJ			
An Accounting Thesaurus: 500 Years of Accounting	THOMAS WA	3	172
CHARLESWORTH Andrew, GILBERT David, RANDALL Adrian, SOUTHALL Humphrey and WRIGLEY Chris			
An Atlas of Industrial Protest in Britain, 1750-1990	MASON JJ	2	120
CHATFIELD Michael and VANGERMEERSCH Richard (eds)			
The History of Accounting: An International Encyclopedia	WALE Judith	2	158
CHOMSKY Aviva			
West Indian Workers and the United Fruit Company in Costa Rica, 1870-1940	LEWIS Colin M	2	147
COFFIN Judith G			
The Politics of Women's Work: The Parisian Garment Trades, 1750-1915	HONEYMAN Katrina	2	128
COOMBS Hugh M and EDWARDS John Richard			
Accounting Innovation: Municipal Corporations, 1835-1935	WALE Judith	3	174
COOPEY Richard and WOODWARD Nicholas (eds)			
Britain in the 1970s: The Troubled Economy	COLLINS Michael	3	144
CORFIELD Penelope J			
Power and the Professions in Britain, 1700-1850	SLINN Judy	4	172

CRAFTS Nicholas and TONILO Gianni (eds)	CAPIE Forrest	2	141
Economic Growth in Europe Since 1945			
CRAVEN Paul (ed)	BENSON John	1	125
Labouring Lives: Work and Workers in Nineteenth-Century Ontario			
DAUNTON MJ	ARMSTRONG John	1	91
Progress and Poverty: An Economic and Social History of Britain, 1700–1850			
DAY Lance and McNEIL Ian	TIMMINS Geoff	1	139
Biographical Dictionary of the History of Technology			
DEVAULT Ileen A	WALSH Margaret	1	128
Sons and Daughters of Labor: Class and Clerical Work in Turn of Century Pittsburgh			
DOWNS Laura Lee	HONEYMAN Katrina	1	103
Manufacturing Inequality: Gender Division in the French and British Metalworking Industries, 1914–1939			
DRESSER Madge and OLLERENSHAW Philip (eds)	VILLE Simon	2	125
The Making of Modern Bristol			
DUNAWAY Wilma A	HAWKINS Richard A	3	158
The First American Frontier: Transition to Capitalism in Southern Appalachia, 1700–1860			
DUYSTERS Geert	ANDERSEN Hanne Birgitte	2	161
The Dynamics of Technical Innovation, The Evolution and Development of Information Technology			
EDGERTON David	ALFORD BWE	3	142
Science, Technology and the British Industrial Decline, 1870–1970			
FAGGE Roger	BOYNS Trevor	2	145
Power, Culture and Conflict in the Coalfield: West Virginia and South Wales, 1900–22			
FONTAINE Laurence	FINK Jorgen	2	127
History of Pedlars in Europe			
FRASER W Hamish and MAVER Irene (eds)	TYSON RE	4	173
Glasgow, Vol.II: 1839–1912			
GALAMBOS Louis with SEWELL Jane Eliot	DUPREE Marguerite W	4	181
Networks of Innovation: Vaccine Development at Merck, Sharp & Dohme, and Mulford, 1985–1996			
GALL Lothar, FELDMAN Gerald D, JAMES Harold, HOLTFRERICH Carl-Ludwig and BÜSCHGEN Hans E	JONES Geoffrey	1	111
The Deutsche Bank, 1870–1995			
GISNÅS Lars	AMDAM Rolv Petter	1	113
Jakten på kjempemarkedet: Norsk business i Singapore			

GLYNN Sean and BOOTH Alan			
Modern Britain: An Economic and			
Social History	COLLINS Michael	1	104
GOMES-CASSERES Benjamin			
The Alliance Revolution: The New Shape			
of Business Rivalry	KIPPING Matthias	3	173
GOODERSON Philip J			
Lord Linoleum: Lord Ashton, Lancaster and			
the Rise of the British Oilcloth and			
Linoleum Industry	FARNIE DA	1	97
GORDON Robert B			
American Iron, 1607-1900	TWEEDALE Geoffrey	3	157
GRAY Robert			
The Factory Question and Industrial England,			
1830-1860	ROSE Michael E	1	93
GUTZKE David W (compiler)			
Alcohol in the British Isles from Roman			
Times to 1996: An Annotated Bibliography	WILSON RG	4	172
HANCOCK David			
Citizens of the World: London Merchants and			
the Integration of the British Atlantic			
Community, 1735-1785	MORGAN Kenneth	1	92
HARTE Negley and QUINAULT Ronald			
Land and Society in Britain, 1700-1914:			
Essays in Honour of F.M.L. Thompson	TURNER Michael	3	139
HAYWARD Jack (ed)			
Industrial Enterprise and European Integration:			
from National to International			
Champions in Western Europe	MACLEAN Mairi	1	120
HEARN Mark and KNOWLES Harry			
One Big Union: A History of the Australian			
Workers' Union, 1886-1994	CREGAN Christina	4	189
HEIKKONEN Esko			
Reaping the Bounty: McCormick Harvesting			
Machine Company Turns Abroad, 1878-1902	FRENCH Michael	1	127
HISTORICAL STUDIES IN INDUSTRIAL			
RELATIONS	ADAMS Tony	2	157
HOBDAY Michael			
Innovation in East Asia: The Challenge			
to Japan	READ Robert	2	148
HOWE Christopher			
The Origins of Japanese Trade Supremacy			
HUBERMAN Michael			
Escape from the Market: Negotiating			
Work in Lancashire	FALKUS Malcolm	2	151
IMAI Kenichi and KOMIYA Ryutaro (eds)			
Business Enterprise in Japan: Views of			
Leading Japanese Economists (translation			
edited and introduced by DORE Ronald and			
WHITTAKER Hugh)	LEE Clive H	3	141
	ABE Etsuo	2	149

JACOBY Sandford M (ed)			
The Workers of Nations: Industrial Relations in a Global Economy		GARSIDE WR	2 153
JOHN Richard R			
Spreading the News: The American Postal System from Franklin to Morse		KIELBOWICZ Richard B	1 126
JONES Edgar			
True and Fair: A History of Price Waterhouse		THOMAS WA	1 99
KEBLER Uwe			
Zur Geschichte des managements bei Krupp. Von den Unternehmensanfängen bis zur Auflösung der Fried. Krupp AG (1811-1943)		GALES Ben	1 110
KIPPING Matthias			
Zwischen Kartellen und Konkurrenz: Der Schuman Plan und die Ursprünge der europäischen Einigung 1944-1952		POLLARD Sidney	3 151
KÜMMEL Gerhardt			
Transnationale Wirtschaftskooperation und der Nationalstaat, Deutsch- Amerikanische Unternehmensbeziehungen in den dreißiger Jahren. Zeitschrift für Unternehmensgeschichte. Beiheft 89		KLEMANN Hein AM	1 117
KURGAN-VAN HENTENRIJK G, JAUMIN S and MONTENS V (eds)			
Dictionnaire des patrons en Belgique. Les hommes, les entreprises, les réseaux		NIJHOF Erik	2 136
KUUSTERÄ Antti			
Idé och pengar, Sparbankerna i det Finländska samhället, 1822-1994		HANSEN Per H	2 129
LANE Joan			
Apprenticeship in England, 1600-1914		BROWN Kenneth D	3 135
LAW Brian			
Fieldens of Todmorden: A Nineteenth Century Business Dynasty		FARNIE DA	1 94
LEE TA (ed)			
Shaping the Accountancy Profession: The Story of Three Scottish Pioneers		MACE JR	3 142
LESCURE Michel			
PME et croissance économique, l'expérience française des années 1920		CAILLUET Ludovic	2 130
LEWIS Mark, FITZGERALD Robert and HARVEY Charles			
The Growth of Nations: Culture, Competitiveness, and the Problem of Globalization		POLLARD Sidney	1 140
LEWIS MJ and LLOYD-JONES Roger			
Using Computers in History: A Practical Guide		MIDDLETON Roger	2 154

LICHT Walter
Industrializing America: The Nineteenth Century

LOBATO FRANCO Isobel
Compañías y negocios en la Cataluña preindustrial (Barcelona, 1650-1720)

LOCKE Robert R
The Collapse of the American Management Mystique

LOGUE John, PLEKHANOV Sergey and SIMMONS John (eds)
Transforming Russian Enterprises: From State Control to Employee Ownership

LURY Celia
Consumer Culture

MARRISON Andrew
British Business and Protection, 1903-1932

MARTINEZ BOBILLO Alfredo
Empresas multinacionales, Estructura organizativa y función financiera

MATHIAS Peter and DAVID John A (eds)
The Nature of Industrialization, Volume 3. Enterprise and Labour: From the Eighteenth Century to the Present

MCARTHY Dennis MP
International Business History: A Contextual and Case Study Approach

MCIVOR Arthur
Organised Capital: Employers' Associations and Industrial Relations in Britain, 1880-1939

MELLING Joseph and MCKINLAY Alan (eds)
Management, Labour and Industrial Politics in Modern Europe: The Quest for Productivity Growth during the Twentieth Century

MIDDLETON Roger
Government Versus the Market: The Growth of the Public Sector, Economic Management and British Economic Performance, c.1890-1979

MILLS D Quinn and FRIESEN G Bruce
Broken Promises: An Unconventional View of What Went Wrong at IBM

MONKKONEN Eric H
The Local State: Public Money and American Cities

RICHARDSON David 1 124

THOMSON JKJ 1 107

WILSON John F 2 143

PERRINS Michael 1 118

HORROCKS Sally M 2 159

HOWE Anthony 2 123

HARRISON Joseph 1 119

POLLARD Sidney 2 160

COOPEY Richard 2 156

SINGLETON John 1 100

LYNCH Frances MB 2 138

BOOTH Alan 2 122

CAMPBELL-KELLY Martin 2 146

PERKINS Edwin J 1 129

MONOD David				
Store Wars: Shopkeepers and the Culture of Mass Marketing, 1890-1939	BENSON John	3	143	
MORRELL Gordon W				
Britain Confronts the Stalin Revolution: Anglo-Soviet Relations and the Metro-Vickers Crisis	LEWIS Robert	1	116	
MOSS Michael and JOBERT Philippe				
Naissance et mort des entreprises en Europe, XIXe-XXe siècles	BONIN Hubert	4	177	
MUIRHEAD Stuart				
Crisis Banking in the East: The History of the Chartered Mercantile Bank of India, London and China, 1853-93	CAPIE Forrest	3	165	
MUNTING Roger				
An Economic and Social History of Gambling in Britain and the USA	THOMAS WA	1	102	
NELSON Daniel				
Managers and Workers: Origins of the Twentieth-Century Factory System in the United States, 1880-1920	HUBERMAN Michael	3	161	
NEWALL Sir Paul				
Japan and the City of London	MICHIE RC	2	124	
NIEMANN Harry and HERRMANN Armin (eds)				
Die Entwicklung der Motorisierung im Deutschen Reich und den Nachfolgestaaten	WIXFORTH Harald	2	133	
O'BRIEN Thomas				
The Revolutionary Mission: American Enterprise in Latin America, 1900-1945	JONES Charles	3	171	
PAPAYANIS Nicholas				
Horse Drawn Cabs and Omnibuses in Paris: The Idea of Circulation and the Business of Public Transit	HONEYMAN Katrina	4	176	
PERKIN Harold				
Professional Elites in the Modern World	SHAW Christine	4	195	
PETERS Tom F				
Building the Nineteenth Century	TIMMINS Geoff	4	193	
PERRON Régine				
Le Marché du Charbon: un enjeu entre l'Europe et les États-Unis de 1945 à 1958	CHICK Martin	3	152	
PILKINGTON Alan				
Transforming Rover: Renewal Against the Odds	ALFORD BWE	2	125	
POHL Hans (ed)				
Geschichte der Organisationformen im Absatzbereich von Unternehmen in den alten und neuen Bundesländern	SLUYTERMAN Keetie E	4	178	
PUFFER Sheila M and ASSOCIATES				
Business and Management in Russia	BIBIKOV Michael	3	153	

RANDALL Andrew and CHARLESWORTH Andrew (eds)
 Markets, Market Culture and Popular
 Protest in Eighteenth-Century Britain and
 Ireland JOHNSON David 2 118

RICHARDSON RC and CHALONER WH
 British Economic and Social History: A
 Bibliographical Guide: Third Edition ALDCROFT Derek H 3 146

RICHARDSON Len
 Coal, Class and Community: The
 United Mineworkers of New Zealand,
 1880-1960 BOYCE Gordon 1 132

RICHTER Frank-Jürgen (ed)
 The Dynamics of Japanese Organizations WILSON John F 1 130

ROBERTS John W
 Putting Foreign Policy to Work: The Role
 of Organized Labor in American Foreign
 Relations, 1932-1941 PEARSON Robin 3 162

ROCK Howard B, GILJE Paul A and ASHER Robert (eds)
 American Artisans: Crafting Social Identity,
 1750-1850 SCRANTON Philip 1 123

ROSE Mary B (ed)
 The Lancashire Cotton Industry: A History
 Since 1700 SCRANTON Philip 2 117

ROY Tirthankar (ed.)
 Cloth and Commerce: Textiles in Colonial
 India COLLINS Patricia S 4 190

SAMBROOK Pamela
 Country House Brewing in England, 1500-1900 WILSON, RG 115

SANDERSON Elizabeth C
 Women and Work in Eighteenth Century
 Edinburgh NENADIC Stana 3 137

SAUL Norman E
 Concord and Conflict: The United States
 and Russia, 1867-1914 GATRELL Peter 2 142

SAVILLE Richard
 Bank of Scotland: A History, 1695-1995 ROSS Duncan M 3 136

SCHOLLIERS Peter
 Wages, Manufacturers and Workers in
 the Nineteenth-Century Factory: The Voortman
 Cotton Mill in Ghent VERMAAS Annelies 3 146

SCHULZE Max-Stephan
 Engineering and Economic Growth:
 The Development of Austria-Hungary's
 Machine-Building Industry in the Late
 Nineteenth Century PEARSON Robin 3 147

SHIOMI Haruhito and WADA Kazuo (eds)
 Fordism Transformed: The Development
 of Production Methods in the Automobile
 Industry WRIGLEY Chris 3 178

SLUYTERMAN Keetie E and VLEESENBECK Huib H Three Centuries of De Kuyper: A History of Geneva and Liqueurs, 1695-1995	WEIR Ron	1	109
SLUYTERMAN Keetie E Driekwart eeuw CSM: cash flow, strategie en menden	BLOEMAN Eric	3	154
SOLOMOU Solomos N Themes in Macroeconomic History: The UK Economy, 1919-1939	MIDDLETON Roger	1	105
SPOERER Mark Von Scheingewinnen zum Rüstungsboom. Die Eigenkapitalrentabilität der deutschen Industriekapitalgesellschaften 1925-1941	VEENENDAAL Augustus J, Jr.	3	150
STABER Udo H, SCHAEFER Norbert V and SHARMA Basu (eds) Business Networks: Prospects for Regional Development	SCRANTON Philip	3	180
STARDOM Eleanor 'A Stranger to the Fur Trade': Joseph Wrigley and the Transformation of the Hudson's Bay Company, 1884-1891	CARLOS Ann M	4	180
STAUBUS George J Economic Influences on the Development of Accounting in Firms	EDWARDS JR	3	176
STERN Joseph J, KIM Ji-Hong, PERKINS Dwight H and YOO Jung-Ho Industrialization and the State: The Korean Heavy Industry Drive	FALKUS Malcolm	3	169
STRANGE Susan The Retreat of the State: The Diffusion of Power in the World Economy	TOMLINSON Jim	4	194
TIRATSOO N and GOURVISH TR (eds) The Business School in European Perspective	AMDAM Rolv Petter	4	179
TOMLINSON Jim Democratic Socialism and Economic Policy: The Attlee Years, 1945-51	PEDEN George	4	174
UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT World Investment Report, 1995: Transnational Corporations and Competitiveness	BALASUBRAMANYAM VN	2	152
URIU Robert M Troubled Industries: Confronting Economic Change in Japan	WILSON John F	4	191
VITALIS Robert When Capitalists Collide: Business Conflict and the End of Empire in Egypt	CLAY Christopher	1	131

VOGEL David
Kindred Strangers: The Uneasy Relationship
between Business and Politics in
America McCRAW Thomas K 4 186

WALTON Peter (ed)
European Financial Reporting:
A History MUMFORD Michael J 1 121

WARD James A
The Fall of the Packard Motor Company DONNELLY Tom 2 144

WARREN Kenneth
Triumphant Capitalism: Henry Clay
Frick and the Industrial Transformation
of America FRENCH Michael 4 183

WICKER Elmus
The Banking Panics of the Great
Depression WOOD Geoffrey E 3 175

WINSTANLEY Michael (ed)
Working Children in Nineteenth-Century
Lancashire JACKSON Stephen 1 96

WRIGHT Christopher
The Management of Labour: A History of
Australian Employers VILLE Simon P 1 133

WRIGLEY Chris (ed)
A History of British Industrial Relations,
1939-1979: Industrial Relations in a
Declining Economy CAUNCE Stephen 2 121

YOSHITOMI Masaru and GRAHAM Edward M (eds)
Foreign Direct Investment in Japan WILKINS Mira 3 168

ZIEGLER Dieter
Eisenbahnen und Staat im Zeitalter
der Industrialisierung HAGEN Antje 3 156